Searches for User lwells (Count = 6062)

Queries 6013 through 6062.

West Search S#'s

S #	Updt	Database	Query	Time	Comment
S6062	U	USPT,PGPB,JPAB,EPAB,DWPI	(((((424/401)!.CCLS.))and (daily same week))and sunscreen) not ((((424/401)!.CCLS.))and (daily near week))	2003-08-29 08:02:31	
S6061	U	USPT,PGPB,JPAB,EPAB,DWPI	((((424/401)!.CCLS.))and (daily same week)) and sunscreen	2003-08-29 08:02:23	
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S6059	U	USPT,PGPB,JPAB,EPAB,DWPI	(((424/401)!.CCLS.)) and (effective period of time or effective time period)		

2003-08-29 08:01:45
S6058
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USPT,PGPB,JPAB,EPAB,DWPI
(((424/401)!.CCLS.)) and (daily near week)

2003-08-29 07:59:41
S6057
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USPT,PGPB,JPAB,EPAB,DWPI
((424/401)!.CCLS.)

2003-08-29 07:59:18
S6056
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PGPB
ptchelintsev.in.

2003-08-29 07:15:51
S6055
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20030057141.pn. or 20030138467.pn.

2003-08-29 07:14:35
S6054
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PGPB
2003057141.pn. or 2003138467.pn.

2003-08-29 07:14:18
S6053
U
USPT,PGPB,JPAB,EPAB,DWPI
hudz.in.

2003-08-28 16:09:50
S6052
U
USPT,PGPB,JPAB,EPAB,DWPI
mangostin

2003-08-28 16:09:41

Connecting via Winsock to STN

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NEWS 1		Web Page URLs for STN Seminar Schedule - N. America
NEWS 2		"Ask CAS" for self-help around the clock
NEWS 3	Feb 24	PCTGEN now available on STN
NEWS 4	Feb 24	TEMA now available on STN
NEWS 5	Feb 26	NTIS now allows simultaneous left and right truncation
NEWS 6	Feb 26	PCTFULL now contains images
NEWS 7	Mar 04	SDI PACKAGE for monthly delivery of multifile SDI results
NEWS 8	Mar 24	PATDPAFULL now available on STN
NEWS 9	Mar 24	Additional information for trade-named substances without structures available in REGISTRY
NEWS 10	Apr 11	Display formats in DGENE enhanced
NEWS 11	Apr 14	MEDLINE Reload
NEWS 12	Apr 17	Polymer searching in REGISTRY enhanced
NEWS 13	AUG 22	Indexing from 1927 to 1936 added to records in CA/CAPLUS
NEWS 14	Apr 21	New current-awareness alert (SDI) frequency in WPIDS/WPINDEX/WPIX
NEWS 15	Apr 28	RDISCLOSURE now available on STN
NEWS 16	May 05	Pharmacokinetic information and systematic chemical names added to PHAR
NEWS 17	May 15	MEDLINE file segment of TOXCENTER reloaded
NEWS 18	May 15	Supporter information for ENCOMPPAT and ENCOMPLIT updated
NEWS 19	May 19	Simultaneous left and right truncation added to WSCA
NEWS 20	May 19	RAPRA enhanced with new search field, simultaneous left and right truncation
NEWS 21	Jun 06	Simultaneous left and right truncation added to CBNB
NEWS 22	Jun 06	PASCAL enhanced with additional data
NEWS 23	Jun 20	2003 edition of the FSTA Thesaurus is now available
NEWS 24	Jun 25	HSDB has been reloaded
NEWS 25	Jul 16	Data from 1960-1976 added to RDISCLOSURE
NEWS 26	Jul 21	Identification of STN records implemented
NEWS 27	Jul 21	Polymer class term count added to REGISTRY
NEWS 28	Jul 22	INPADOC: Basic index (/BI) enhanced; Simultaneous Left and Right Truncation available
NEWS 29	AUG 05	New pricing for EUROPATFULL and PCTFULL effective August 1, 2003
NEWS 30	AUG 13	Field Availability (/FA) field enhanced in BEILSTEIN
NEWS 31	AUG 15	PATDPAFULL: one FREE connect hour, per account, in September 2003
NEWS 32	AUG 15	PCTGEN: one FREE connect hour, per account, in September 2003
NEWS 33	AUG 15	RDISCLOSURE: one FREE connect hour, per account, in September 2003
NEWS 34	AUG 15	TEMA: one FREE connect hour, per account, in September 2003
NEWS 35	AUG 18	Data available for download as a PDF in RDISCLOSURE
NEWS 36	AUG 18	Simultaneous left and right truncation added to PASCAL
NEWS 37	AUG 18	FROSTI and KOSMET enhanced with Simultaneous Left and Right Truncation

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 NEWS 38  AUG 18  Simultaneous left and right truncation added to ANABSTR

 NEWS EXPRESS  April 4 CURRENT WINDOWS VERSION IS V6.01a, CURRENT
               MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),
               AND CURRENT DISCOVER FILE IS DATED 01 APRIL 2003
 NEWS HOURS    STN Operating Hours Plus Help Desk Availability
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FILE 'HOME' ENTERED AT 07:09:24 ON 29 AUG 2003

=> fil reg
COST IN U.S. DOLLARS                            SINCE FILE      TOTAL
                                                   ENTRY    SESSION
FULL ESTIMATED COST                                 0.21       0.21

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STRUCTURE FILE UPDATES:   27 AUG 2003  HIGHEST RN 574700-05-3
DICTIONARY FILE UPDATES:  27 AUG 2003  HIGHEST RN 574700-05-3

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

  Please note that search-term pricing does apply when
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Crossover limits have been increased.  See HELP CROSSOVER for details.

Experimental and calculated property data are now available.  See HELP
PROPERTIES for more information.  See STNote 27, Searching Properties
in the CAS Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=> e mangostin/cn
E1            1     MANGOSTENONE A/CN
E2            1     MANGOSTENONE B/CN
E3            1 --> MANGOSTIN/CN
E4            1     MANGOSTIN DIALDEHYDE, DIMETHYL-/CN
E5            1     MANGOSTIN TRIACETATE/CN
E6            1     MANGOSTIN, DEMETHYL-/CN
E7            1     MANGOSTIN, DIMETHYL-/CN
E8            1     MANGOSTIN, DIMETHYL-, ACETATE/CN
E9            1     MANGOSTIN, DIMETHYL-, HYDROCHLORIDE/CN
E10           1     MANGOSTIN, TETRAHYDRODIMETHYL-/CN
E11           1     MANGOSTINONE/CN
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E12          1     MANGRIN (BRUGUIERA SEXANGULA GENE MANG1)/CN

=> s e3
L1           1 MANGOSTIN/CN

=> d

L1   ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2003 ACS on STN
RN   6147-11-1  REGISTRY
CN   9H-Xanthen-9-one, 1,3,6-trihydroxy-7-methoxy-2,8-bis(3-methyl-2-butenyl)-
     (9CI)  (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN   Mangostin (6CI, 7CI)
CN   Xanthen-9-one, 1,3,6-trihydroxy-7-methoxy-2,8-bis(3-methyl-2-butenyl)-
     (8CI)
OTHER NAMES:
CN   .alpha.-Mangosten
CN   .alpha.-Mangostin
CN   1,3,6-Trihydroxy-7-methoxy-2,8-bis(3,3-dimethylallyl)xanthone
CN   1,3,6-Trihydroxy-7-methoxy-2,8-di(3-methyl-2-butenyl)xanthone
CN   NSC 139154
CN   NSC 27593
CN   NSC 30552
FS   3D CONCORD
MF   C24 H26 O6
CI   COM
LC   STN Files:   AGRICOLA, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA,
       CAOLD, CAPLUS, CASREACT, CHEMCATS, CSCHEM, DDFU, DRUGU, EMBASE, IPA,
       MEDLINE, MRCK*, NAPRALERT, TOXCENTER, USPATFULL
         (*File contains numerically searchable property data)
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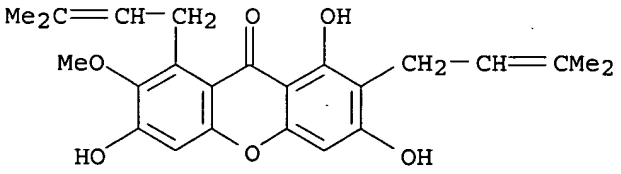


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**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

             78 REFERENCES IN FILE CA (1937 TO DATE)
              1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
             79 REFERENCES IN FILE CAPLUS (1937 TO DATE)
              3 REFERENCES IN FILE CAOLD (PRIOR TO 1967)


=> fil caplus uspatfull biosis embase medline kosmet
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                   ENTRY    SESSION
FULL ESTIMATED COST                                6.30       6.51

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FILE 'MEDLINE' ENTERED AT 07:09:57 ON 29 AUG 2003

FILE 'KOSMET' ENTERED AT 07:09:57 ON 29 AUG 2003
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=> d his

     (FILE 'HOME' ENTERED AT 07:09:24 ON 29 AUG 2003)

     FILE 'REGISTRY' ENTERED AT 07:09:31 ON 29 AUG 2003
               E MANGOSTIN/CN
L1            1 S E3

     FILE 'CAPLUS, USPATFULL, BIOSIS, EMBASE, MEDLINE, KOSMET' ENTERED AT
     07:09:57 ON 29 AUG 2003

=> s l1
'CN' IS NOT A VALID FIELD CODE
L2          121 L1

=> dup rem l2
DUPLICATE IS NOT AVAILABLE IN 'KOSMET'.
ANSWERS FROM THESE FILES WILL BE CONSIDERED UNIQUE
PROCESSING COMPLETED FOR L2
L3            92 DUP REM L2 (29 DUPLICATES REMOVED)

=> l3 and (cosmetic or skin)
L3 IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

=> s l3 and (cosmetic or skin)
L4            4 L3 AND (COSMETIC OR SKIN)

=> d ibib abs

L4   ANSWER 1 OF 4  CAPLUS  COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER:         2003:551316  CAPLUS
DOCUMENT NUMBER:          139:122731
TITLE:                    Mangostin compositions for improving the aesthetic
                          appearance of skin
INVENTOR(S):              Ptchelintsev, Dmitri S.
PATENT ASSIGNEE(S):       Avon Products, Inc., USA
SOURCE:                   PCT Int. Appl., 18 pp.
                          CODEN: PIXXD2
DOCUMENT TYPE:            Patent
LANGUAGE:                 English
FAMILY ACC. NUM. COUNT:   1
PATENT INFORMATION:

     PATENT NO.        KIND  DATE           APPLICATION NO.  DATE
     --------------    ----  --------       ---------------  --------
     WO 2003057141      A2   20030717       WO 2002-US39734  20021212
         W:  AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
             CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
             GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
             LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
             PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA,
             UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
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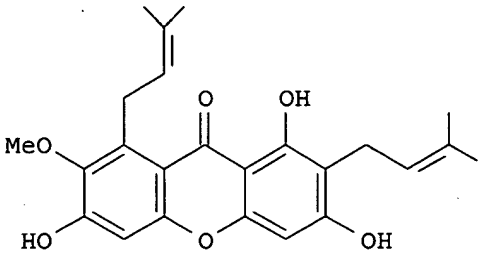
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

US 2003138467 A1 20030724 US 2001-33169 20011227

PRIORITY APPLN. INFO.: US 2001-33169 A 20011227

OTHER SOURCE(S): MARPAT 139:122731

GI



I

AB Methods and compns. for improving the aesthetic appearance of akin, treating rosacea and/or telangiectasia, and treating the signs of dermatol. aging are provided. The method is directed to topically applying to an affected area an effective amt. of mangostin (I), an analog, or a combination.

=> d 2 ibib abs

L4 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 2002:113811 CAPLUS

DOCUMENT NUMBER: 136:150288

TITLE: Cyclooxygenase inhibitor containing Garcinia mangostana extract or mangostin, and foods and beverages containing the inhibitor

INVENTOR(S): Oizumi, Yasushi; Arakawa, Tsutomu; Osawa, Kenji; Shimura, Susumu

PATENT ASSIGNEE(S): Lotte Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002047180	A2	20020212	JP 2000-235023	20000802

PRIORITY APPLN. INFO.: JP 2000-235023 20000802

AB The inhibitor contains (A) ext. obtained by extn. of fruit **skin** of G. mangostana with (aq.) org. solvent or (B) .alpha.- or .gamma.-mangostin as an active ingredient. The inhibitor is useful for treatment of prostaglandin-related diseases (e.g. allergy), causes no adverse effects, does not affect food taste, and is stable. Thus, .alpha.- and .gamma.-mangostin inhibited formation of PGE2 by 97.2 and 90.2%, resp.

=> d 3 ibib abs

L4 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1999:702567 CAPLUS
DOCUMENT NUMBER: 131:291046
TITLE: Use of **cosmetic** compositions containing a substance with a pyrone group
INVENTOR(S): Gedouin, Antoine; Vallee, Romuald; Ars, Helene
PATENT ASSIGNEE(S): Codif International S. A., Fr.
SOURCE: Fr. Demande, 18 pp.
CODEN: FRXXBL
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2774905	A1	19990820	FR 1998-2152	19980217
FR 2774905	B1	20000609		

PRIORITY APPLN. INFO.: FR 1998-2152 19980217
AB **Cosmetic** compns. contg. a substance with a pyrone group such as xanthones are useful for stimulation of lipolysis. Mangostin at a concn. of 5% in DMSO inhibited 50.mu.g/mL soln. of phosphodiesterase activity by 108%.

=> d 4 ibib abs

L4 ANSWER 4 OF 4 USPATFULL on STN
ACCESSION NUMBER: 2003:200482 USPATFULL
TITLE: Methods for improving the aesthetic appearance of **skin**
INVENTOR(S): Ptchelintsev, Dmitri, Jersey City, NJ, UNITED STATES
PATENT ASSIGNEE(S): AVON PRODUCTS, INC., NEW YORK, NY, UNITED STATES (U.S. corporation)

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2003138467	A1	20030724	
APPLICATION INFO.:	US 2001-33169	A1	20011227	(10)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: Charles N.J. Ruggiero, Esq., Ohlandt, Greeley, Ruggiero & Perle, L.L.P., 10th Floor, One Landmark Square, Stamford, CT, 06901-2682
NUMBER OF CLAIMS: 33
EXEMPLARY CLAIM: 1
LINE COUNT: 433
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB There are provided methods and compositions for improving the aesthetic appearance of akin, treating rosacea and/or telangiectasia, and treating the signs of dermatological aging. The method is directed to topically applying to an affected area an effective amount of mangostin, an analog thereof, or a combination thereof.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d his

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FILE 'REGISTRY' ENTERED AT 07:09:31 ON 29 AUG 2003
E MANGOSTIN/CN
L1 1 S E3

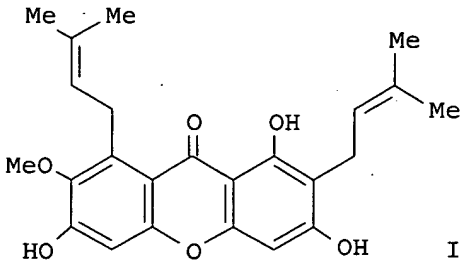
FILE 'CAPLUS, USPATFULL, BIOSIS, EMBASE, MEDLINE, KOSMET' ENTERED AT 07:09:57 ON 29 AUG 2003
L2 121 S L1
L3 92 DUP REM L2 (29 DUPLICATES REMOVED)
L4 4 S L3 AND (COSMETIC OR SKIN)

=> s l3 and (medicine or medicament or pharmaceutical)
L5 6 L3 AND (MEDICINE OR MEDICAMENT OR PHARMACEUTICAL)

=> s l5 not l4
L6 5 L5 NOT L4

=> d ibib abs

L6 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 2000:32751 CAPLUS
DOCUMENT NUMBER: 132:234289
TITLE: Characterization of bioactive substance, .alpha.-mangosten, isolated from the hull of Garcinia mangostana L
AUTHOR(S): Wahyuono, Subagus; Astuti, Puji; Artama, Wayan T.
CORPORATE SOURCE: Laboratories of Pharmaceutical Biology, Gadjah Mada University, Yogyakarta, Indonesia
SOURCE: Majalah Farmasi Indonesia (1999), 10(3), 127-134
CODEN: MFINFF; ISSN: 0126-1037
PUBLISHER: Fakultas Farmasi UGM
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



I

AB The need of new medicines is increasing qual. as well as quant. from time to time. Natural resource such as traditional medicines that have been extensively utilized to treat various diseases, is the ultimate alternative to fulfill the need. Searching for a new **medicine** can be initiated by isolating and identifying the major compds. present in the natural resources. The hull of Garcinia mangostana L. (Manggis) has been used traditionally to treat respiratory disorders in Indonesia. .alpha.-Mangosten (I), a xanthone type of compd., is a major substance present in the hull of Garcinia mangostana L. can be used as a starting material for development of new medicines. In this paper, isolation and purifn. procedures of .alpha.-mangosten (LC-50 = 8.02 .mu.g/mL on BST) from the hull of G. mangostana are reported. Characterization is carried out by spectroscopic methods (IR, UV, MS and 1H-NMR) compared with std. spectra of .alpha.-mangosten.
REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d 2 ibib abs

L6 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1999:30495 CAPLUS
DOCUMENT NUMBER: 130:246845
TITLE: Search for receptor blocking substances from natural resources and their pharmacological studies
AUTHOR(S): Ohizumi, Yasushi
CORPORATE SOURCE: Department of Pharmaceutical Molecular Biology, Faculty of Pharmaceutical Sciences, Tohoku University, Sendai, 980, Japan
SOURCE: International Congress Series (1998), 1157(Towards Natural Medicine Research in the 21st Century), 103-112
CODEN: EXMDA4; ISSN: 0531-5131
PUBLISHER: Elsevier Science B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Natural products able to antagonize the actions of histamine or 5-HT would be of great interest both as pharmacol. tools and as therapeutic agents for the treatment of various allergic diseases. In the course of survey of pharmacol. active substances in medicinal plants, including Garcinia mangostana L. and Nandina domestica Thunberg, much attention has been given to the occurrence of natural products possessing histamine or 5-HT antagonistic activities. In isolated rabbit thoracic aorta and guinea-pig trachea .alpha.-mangostin inhibited histamine-induced contractions in a concn.-dependent manner in the presence or absence of cimetidine a histamine H2 receptor antagonist. But KCl-, phenylephrine-, or carbachol-induced contractions were not affected by .alpha.-mangostin. The concn.-contractile response curve for histamine was shifted to the right in a parallel manner by .alpha.-mangostin. In the presence of chlorpheniramine a histamine H1 receptor antagonist .alpha.-mangostin did not affect the relaxation of rabbit aorta induced by histamine. In guinea-pig trachea .alpha.-mangostin had no effect on the relaxation induced by dimaprit histamine H2 receptor agonist. .alpha.-Mangostin caused a concn.-dependent inhibition of the binding of [3H]mepyramine a specific histamine H1 receptor antagonist to rat aortic smooth muscle cells. Kinetic anal. of [3H]mepyramine binding indicated the competitive inhibition by .alpha.-mangostin. These results suggest that .alpha.-mangostin is a novel competitive histamine H1 receptor antagonist in smooth muscle cells. .gamma.-Mangostin purified from a fruit hull of the medicinal plant Garcinia mangostana caused a parallel rightward shift of the concn.-contractile response curve for 5-HT (5-HT2) in the rabbit aorta (pA2 = 8.2) without affecting the contractile responses to KCl, phenylephrine (.alpha.1) or histamine (H1). 5-HT amplified ADP-induced aggregation of rabbit platelets (5-HT2A) was inhibited by .gamma.-mangostin whereas that induced by thrombin was not affected by it. .gamma.-Mangostin did not affect 5-HT-induced contraction of the guinea-pig ileum (5-HT3) in the presence of 5-HT 5-HT2 and 5-HT4 antagonists. .gamma.-Mangostin caused an inhibition of the [3H]spiperone binding to cultured rat aortic myocytes. Kd value of the [3H]spiperone binding was increased by .gamma.-mangostin without affecting the Bmax value. Furthermore authors have found that .gamma.-mangostin plays as specific 5-HT2A receptor antagonist in mouse brain. Taken together these observations suggest that .gamma.-mangostin is a novel competitive antagonist for the 5-HT2A receptors not only in vascular smooth muscles and platelets but also in the central nervous system. Nantenine caused a concn.-dependent (1-10 mg/kg p.o.) antihypertensive effect in spontaneously hypertensive rats without affecting heart rates possibly via its 5-HT2A blocking activity.
REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d 3 ibib abs

L6 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1996:748238 CAPLUS
DOCUMENT NUMBER: 126:181134
TITLE: Histaminergic and serotonergic receptor blocking substances from the medical plant Garcinia mangostana
AUTHOR(S): Chairungsrilerd, Nattaya; Furukawa, Ken Ichi; Ohta, Tomihisa; Nozoe, Shigeo; Ohizumi, Yasushi
CORPORATE SOURCE: Faculty Pharmaceutical Sciences, Tohoku University, Sendai, 980, Japan
SOURCE: Planta Medica (1996), 62(5), 471-472
CODEN: PLMEAA; ISSN: 0032-0943
PUBLISHER: Thieme
DOCUMENT TYPE: Journal
LANGUAGE: English
AB A crude methanolic ext. of the fruit of Mangosteen, Garcinia mangostana inhibited the contractions of isolated thoracic rabbit aorta induced by histamine and serotonin. The ext. of the fruit hull was fractionated by silica gel chromatog., monitoring the pharmacol. activity to give .alpha.- and .gamma.-mangostin. On the basis of pharmacol. data it is suggested that .alpha.-mangostin and .gamma.-mangostin are a histaminergic and a serotonergic receptor blocking agent, resp.

=> d 4 ibib abs

L6 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1996:617014 CAPLUS
DOCUMENT NUMBER: 125:270262
TITLE: Antibacterial activity of xanthones from guttiferaeous plants against methicillin-resistant Staphylococcus aureus
AUTHOR(S): Iinuma, Munekazu; Tosa, Hideki; Tanaka, Toshiyuki; Asai, Fujio; Kobayashi, Yasuko; Shimano, Ryoyu; Miyauchi, Ken-Ichi
CORPORATE SOURCE: Dep. of Pharmacognosy, Gifu Pharmaceutical Univ., Gifu, 502, Japan
SOURCE: Journal of Pharmacy and Pharmacology (1996), 48(8), 861-865
CODEN: JPPMAB; ISSN: 0022-3573
PUBLISHER: Royal Pharmaceutical Society of Great Britain
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Exts. of Garcinia mangostana (Guttiferae) showing inhibitory effects against the growth of S. aureus NIHJ 209p were fractionated according to guidance obtained from bioassay and some of the components with activity against methicillin-resistant Staphylococcus aureus (MRSA) were characterized. One active isolate, .alpha.-mangostin, a xanthione deriv., had a min. inhibitory concn. (MIC) of 1.57-12.5 .mu.g mL-1. Other related xanthones were also examd. to det. their anti-MRSA activity. Rubraxanthone, which was isolated from Garcinia dioica and has a structure similar to that of .alpha.-mangostin, had the highest activity against staphylococcal strains (MIC = 0.31-1.25 .mu.g mL-1), an activity which was greater than that of the antibiotic vancomycin (3.13-6.25 .mu.g mL-1). The inhibitory effect against strains of MRSA of two of the compds. when used in conjunction with other antibiotics was also studied. The anti-MRSA activity of .alpha.-mangostin was clearly increased by the presence of vancomycin; this behavior was not obsd. for rubraxanthone. The strong in-vitro antibacterial activity of xanthone derivs. against both methicillin-resistant and methicillin-sensitive Staphylococcus aureus suggests the compds. might find wide **pharmaceutical** use.

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TITLE: Molecular interactions between phospholipids and mangostin in a lipid bilayer
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AB Mol. interactions between phospholipids and mangostin (1,3,6-trihydroxy-7-methoxy-2,8-bis(3-methyl-2-butenyl)-9-xanthenenone) in a lipid bilayer have been investigated in terms of the max. additive concn. (MAC) of mangostin in liposomes, the surface potential, particle size, microscopic-viscosity and microscopic-polarity of liposomes, and the permeability to glucose. The MAC of mangostin was fairly dependent upon the nature of the liposomes (uncharged, neg. charged or pos. charged). Solubilization of mangostin in the liposomal bilayer resulted in both an increase in the neg. charge on the liposomal surface, strengthening the state of the bilayer membrane, and a depression in the release of the glucose involved. Mangostin was found to temporarily stabilize the liposomal bilayer, although the bilayer membrane is still unstable in the long run. The relevance of these studies to the use of mangostin liposomes as potential **pharmaceutical** agents is briefly discussed.